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PHOTOGRAPHIC INTERVIGE REPORT

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ANALYSIS
DIVISION

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REGIONAL LIQUID STORAGE
INSTALLATIONS IN COMMUNIST
CHINA

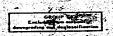
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TCS 12655/65
DATE October 196

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REGIONAL LIQUID STORAGE INSTALLATIONS

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CIA IMAGERY ANALYSIS DIVISION

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REGIONAL LIQUID STORAGE INSTALLATIONS

IN COMMUNIST CHINA

Nineteen unusual rail-served liquid storage installations, including six that are currently under construction, have been located in Communist China (Figure 1). These installations have similar components and are all strategically located in relatively isolated areas at the end of 2-3 mile long rail spurs which were constructed specifically for and serve only the installation.

The installations appear to be military in nature and may be regional collection and distribution centers for a type of liquid storage. Some of these sites are less than ten miles from large military barracks and training areas. A typical completed installation (Figure 2) contains 20 domecovered, earth-mounded, semi-buried, tank-like structures, approximately 75 feet in diameter and 40 feet deep; a three-track wide, revetted, rail transloading facility; at least one large earth-covered bunker, approximately 200 feet by 100 feet; two or three warehouse-type buildings, each approximately 200 feet by 100 feet; and a support area of 35-50 buildings, including barracks. The entire area is secured with single or double fencing.

These installations resemble POL storage areas, but they have several features that are not typical of known POL storage areas elsewhere in China.

- (a) A hemispherical dome covers each tank-like structure. The sides of the tank are completely covered with earth approximately ten feet thick at the top, sloping to 20-25 feet thick at the bottom, so that each tank-like structure resembles a giant igloo (Figure 3).
- (b) The structures are spaced in an apparently random pattern from 100 to 500 feet apart, possibly to take advantage of ravine spurs and natural terrain features that provide additional security and protection.
- (c) An improved road leads to each individual tank-like structure, which has a cave-like entrance large enough for small vehicles.
- (d) Each structure appears to have seven ventilators; one on the top in the center of the dome, and six spaced around the edges.
 - (e) The structures are usually built along the sides of ravines at

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elevations considerably higher than the railhead facility.

(f) Locating these installations in some of these isolated areas required the construction of tunnels and bridges. The construction time of approximately 3-4 years and the engineering and construction costs appear to be abnormally and unnecessarily high for conventional POL storage areas.

25X1D

25X1D

The following eleven installations appeared to be operational when they were first photographed during period. However, new buildings and additional constructional activity has been observed at most of these installations from

Chieh-Hsiu (36-59N lll-55E), 60 nautical miles southwest of Tai-Yuan Cha-Chou (27-49N ll3-13E), 25 nautical miles southeast of Chang-Sha Chueh-Shan (32-47N ll4-01E), 135 nautical miles north of Wu-Han Hsin-Pao-An (40-27N ll5-21E), 50 nautical miles northwest of Pei-Ping Huo-Lu (38-03N ll4-17E), 10 nautical miles west of Shi-Men Kang-Chuang (40-19N ll5-54E), 25 nautical miles northwest of Pei-Ping Liu-Lin (31-58N ll4-06E), 85 nautical miles north of Wu-Han Tung-Hsiang (28-10N ll6-38E), 50 nautical miles southeast of Nan-Chang Yang-Kao (40-20N ll3-41E), 25 nautical miles northeast of Ta-Tung Yen-Shin (34-44N ll2-55E), 25 nautical miles east of Lo-Yang Yung-Fu (24-49N ll0-00E), 45 nautical miles northeast of Liu-Chow

25X1D 25X1D The following two installations were in the early stages of construction when they were first photographed in be operational in

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Wu-Wei (37-59N 102-30E), 6 nautical miles northwest of Wu-Wei Yang-Lin (25-14N 103-06E), 25 nautical miles northeast of Kun-Ming

25X1D

The following six installations began construction during and as of were still actively under construction at various stages of completion:

Ran-Chang (31-04N 118-07E), 25 nautical miles southwest of Wu-Hu Pai-Shih-Tu (25-25N 113-04E), 50 nautical miles northwest of Chu-Chiang Shao-Wu (27-26N 117-27E), 60 nautical miles northwest of Nan-Ping Ta-Jung-Chiang (25-35N 110-32E), 20 nautical miles northeast of Kwei-Lin Te-Po-Ssu (46-27N 121-18E), 75 nautical miles northwest of Tao-An Tung-Shan (41-58N 124-32E), 50 nautical miles east - northeast of Shen-Yang

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Photographs and map locations of the known nineteen installations, arranged in alphabetical order, are shown on the following pages. A detailed search of available photography could possibly reveal the locations of several more.

A few of these installations are identified and located for the first time in this report, but most of them have been previously reported as possible underground POL storage, explosive storage, or mining activity. Whatever their function, it seems apparent that they are all similar, represent a major current construction effort, and may have significant military importance.

REFERENCES

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MAPS and CHARTS

Chieh-Hsiu

ACIC. US Air Target Chart, Series 200, Sheet 0382-18AL, Scale 1:200, 000, 2nd edition, April 1961 (SECRET)

Chu-Chou

ACIC. US Air Target Chart, Series 200, Sheet 0498-1AL, Scale 1:200, 000, 2nd edition, September 1960 (SECRET)

Chuen-Shan

ACIC. US Air Target Chart, Saries 200, Sheet 0385-24HL, Scale 1:200, 000, 2nd edition, June 1963 (SECRET)

Fan-Chang

ACIC. US Air Target Chart, Series 200, Sheet 0493-9A, Scale 1:200, 000, 1st edition, March 1959 (SECRET)

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Pai-Shih-Tu

ACIC., US AIT Target Chart, Series 200, Sheet 0498-16HL, Scale 1:200, 000, 2nd edition, March 1964 (SECRET)

Hsin-Pao-An

ACIC. US Air Target Chart, Series 200, Sheet 0289-21AL, Scale 1:200, 000, 4th edition, November 1962 (SECRET)

Huo-Lu

ACIC. US Air Target Chart, Series 200, Sheet 0382-14AL, Scale 1:200, 000, 2nd edition, February 1961 (SECRET)

Kang-Chuang

ACIC. US Air Target Chart, Series 200, Sheet 0289-21AL, Scale 1:200, 000, 4th edition, November 1962 (SECRET)

Liu-Lin

ACIC. US Air Target Chart, Series 100, Sheet 0385-8415-100A (Prov), Scale 1:100,000, 2nd edition (Prov), May 1957 (SECRET)

Shao-Wu

ACIC. US Air Target Chart, Series 200, Sheet 0498-4AL, Scale 1:200, 000, 1st edition, August 1960 (SECRET)

Ta-Jung-Chiang

ACIC. US Air Target Chart, Series 200, Sheet 0497-18 A, Scale 1:200, 000, 1st edition, February 1959 (SECRET)

Te-Po-Ssu

ACIC. US Air Target Chart, Series 200, Sheet 0284-9AL, Scale 1:200, 000, 1st edition, January 1960 (CONFIDENTIAL)

Tung-Hsiang

ACIC. US Alx Target Chart, Series 200, Sheet 0493-23AL, Scale 1:200, 000, 2nd edition, November 1960 (SECRET)

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Tung-Shan

ACIC. US Air Target Chart, Series 200, Sheet 0290-11HL, Scale 1:200, 000, 3rd edition, December 1961 (SECRET)

Wu-Wei

ACIC. US Air Target Chart, Series 200, Sheet 0383-11HL, Scale 1:200, -000, 2nd edition, June 1964 (SECRET)

Yang-Kao

ACIC. US Air Target Chart, Series 200, Sheet 0288-25AL, Scale 1:200, 000, 1st edition, March 1960 (SECRET)

: Yang-Lin

ACIC. US Air Target Chart, Series 200, Sheet 0496-17A, Scale 1:200, 000, 1st edition, September 1959 (SECRET)

Yen-Shih

ACIC. US Air Target Chart, Series 200, Sheet 0385-8AL, Scale 1:200, 000, 1st edition, April 1960 (SECRET)

Yung-Fu

ACIC. US Air Target Chart, Series 200, Sheet 0497-18A, Scale 1:200, 000, 1st edition, February 1959 (SECRET)

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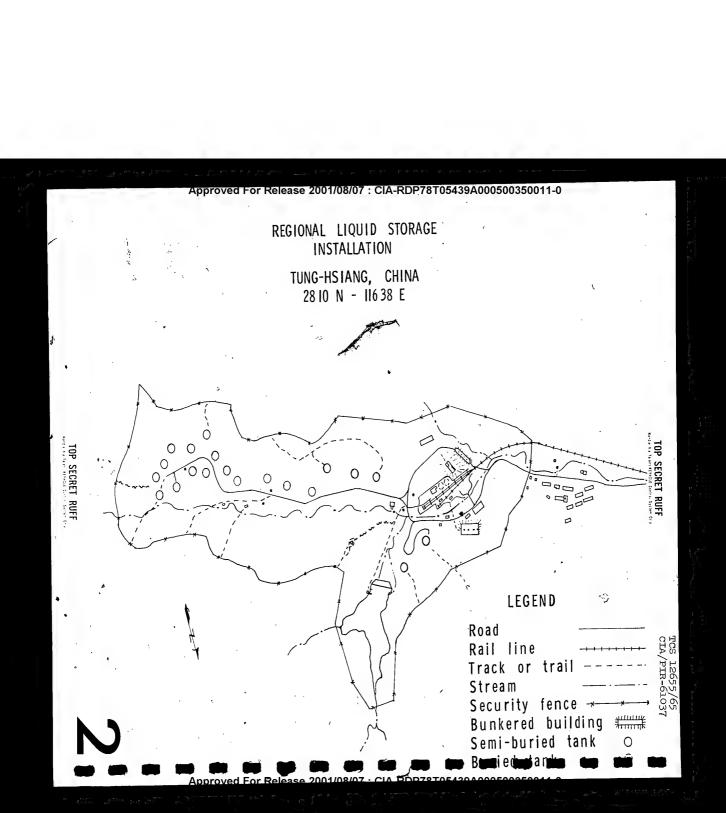
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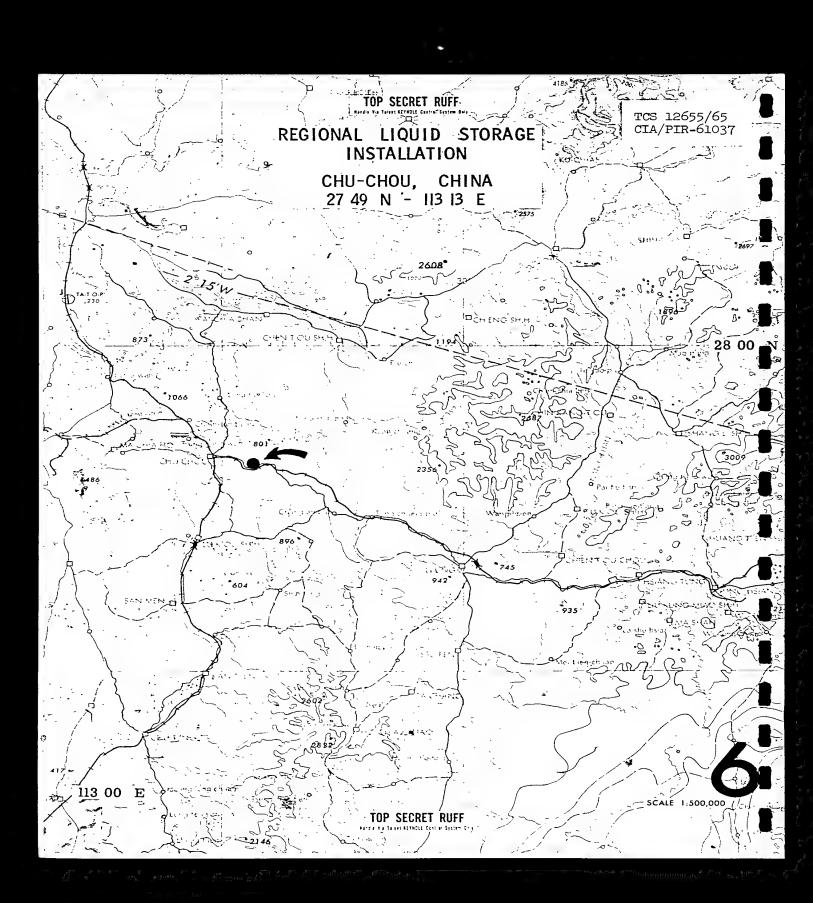
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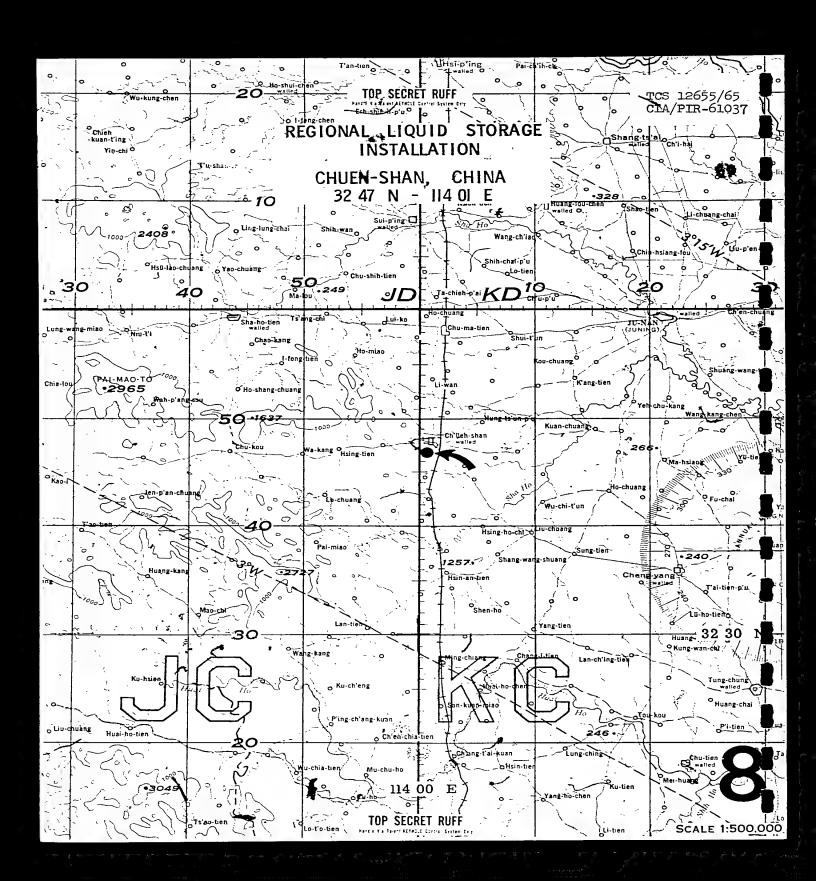
SKETCH OF TYPICAL TANK-LIKE **STRUCTURE**

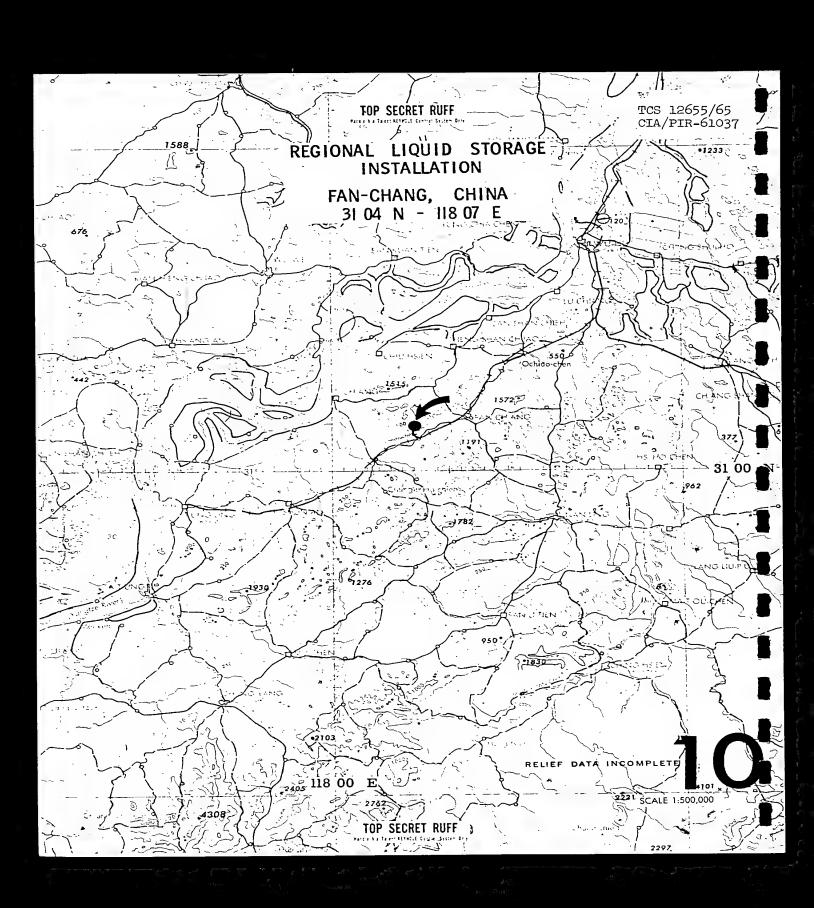
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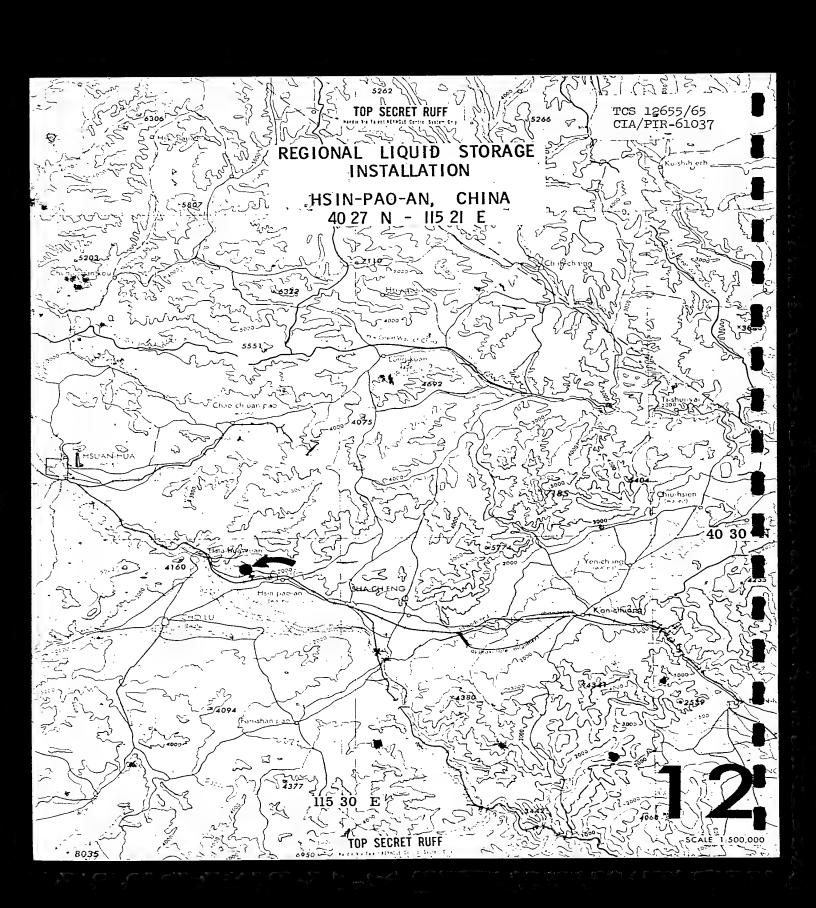




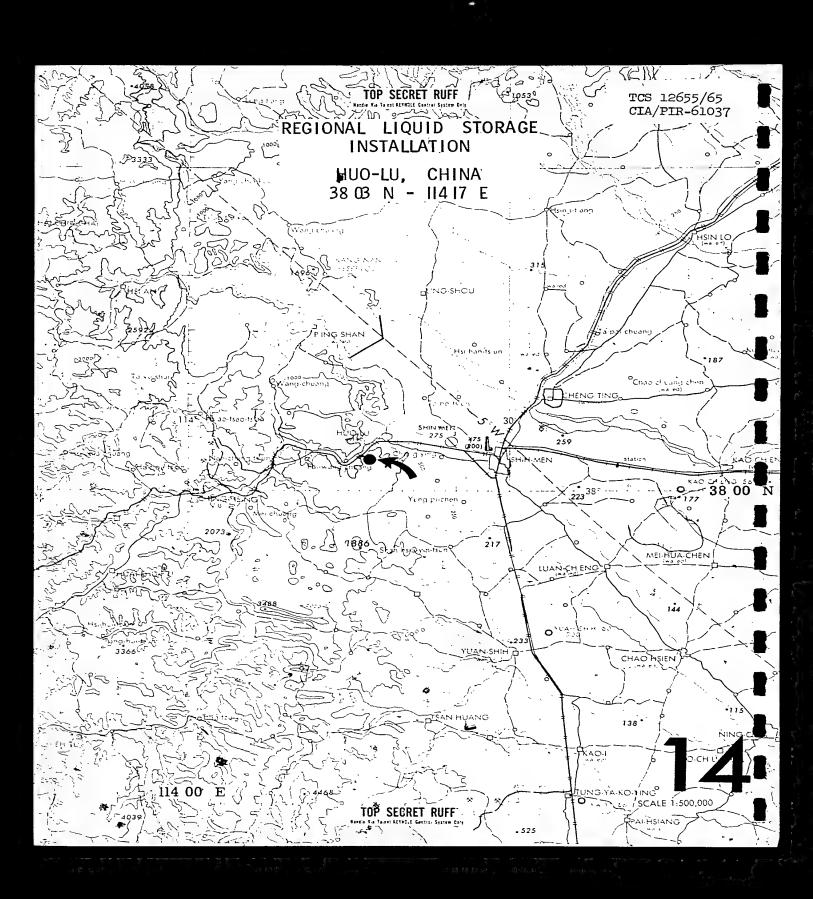


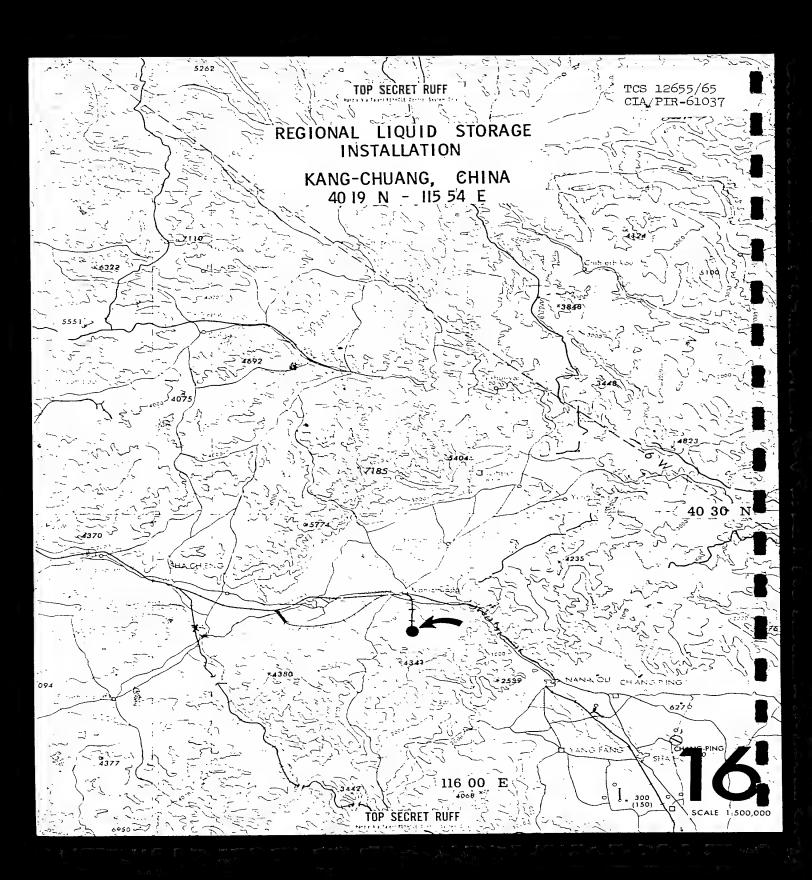


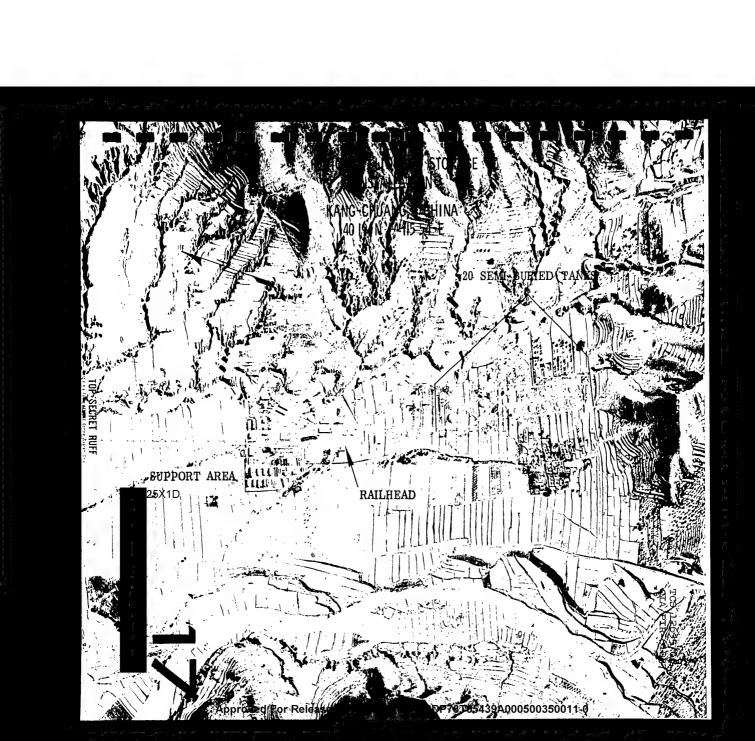
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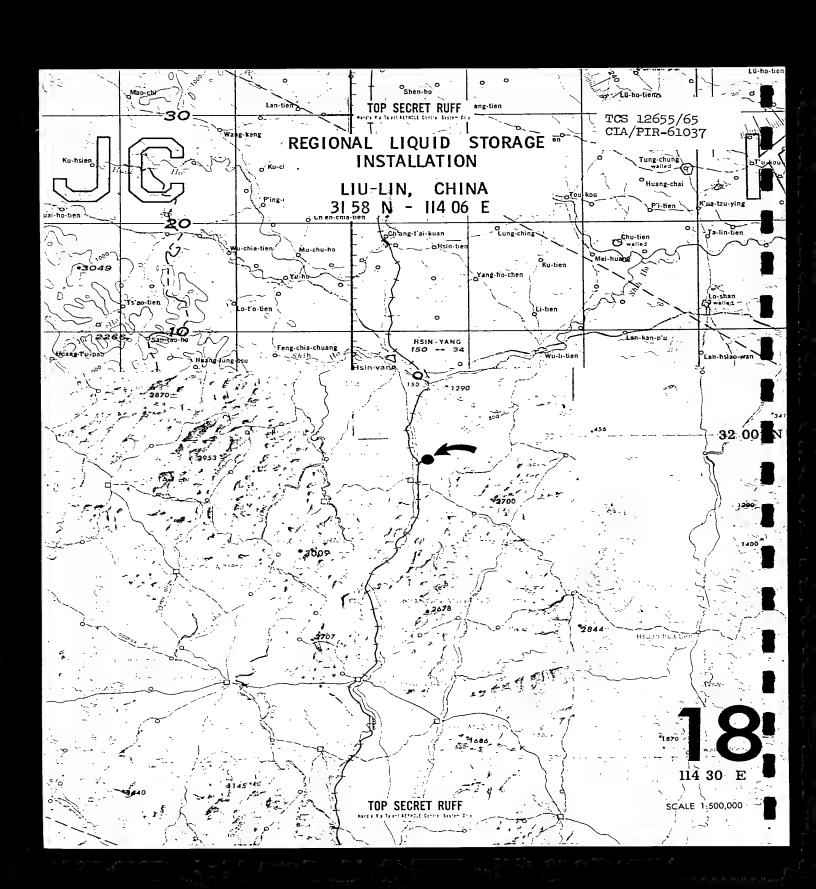


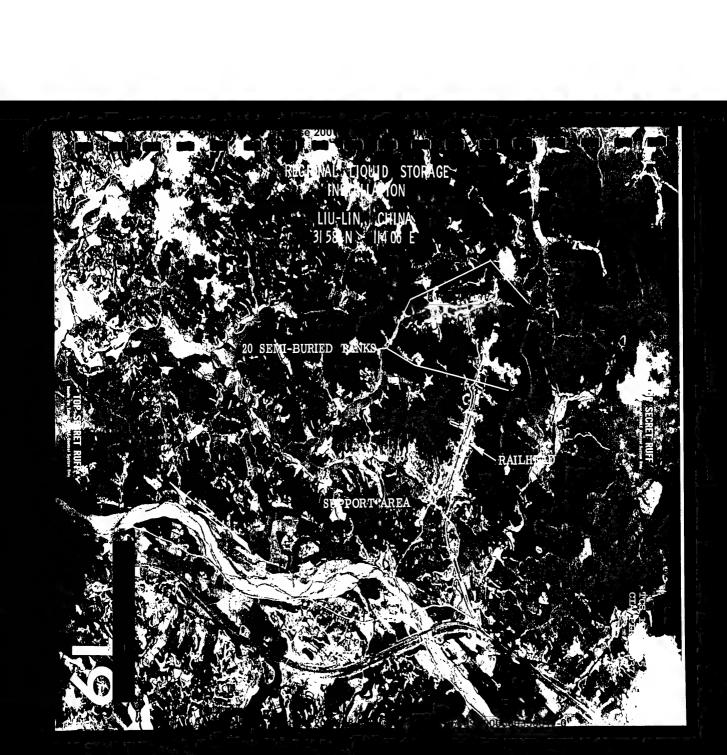












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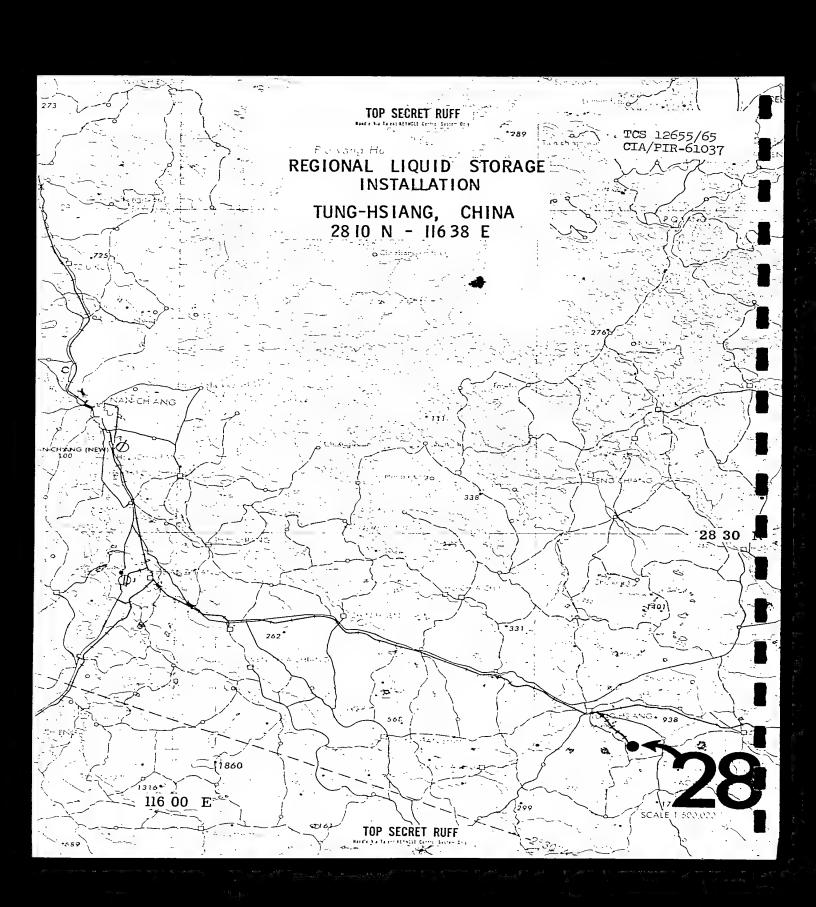


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REGIONAL LIQUID ₹STORAGE INSTALLATION

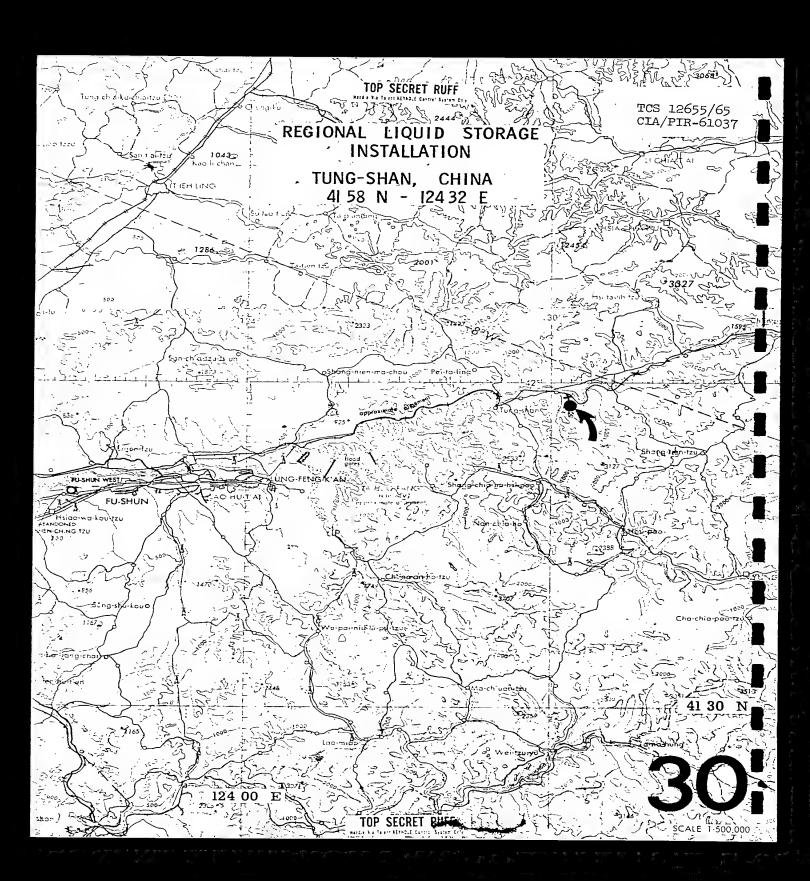
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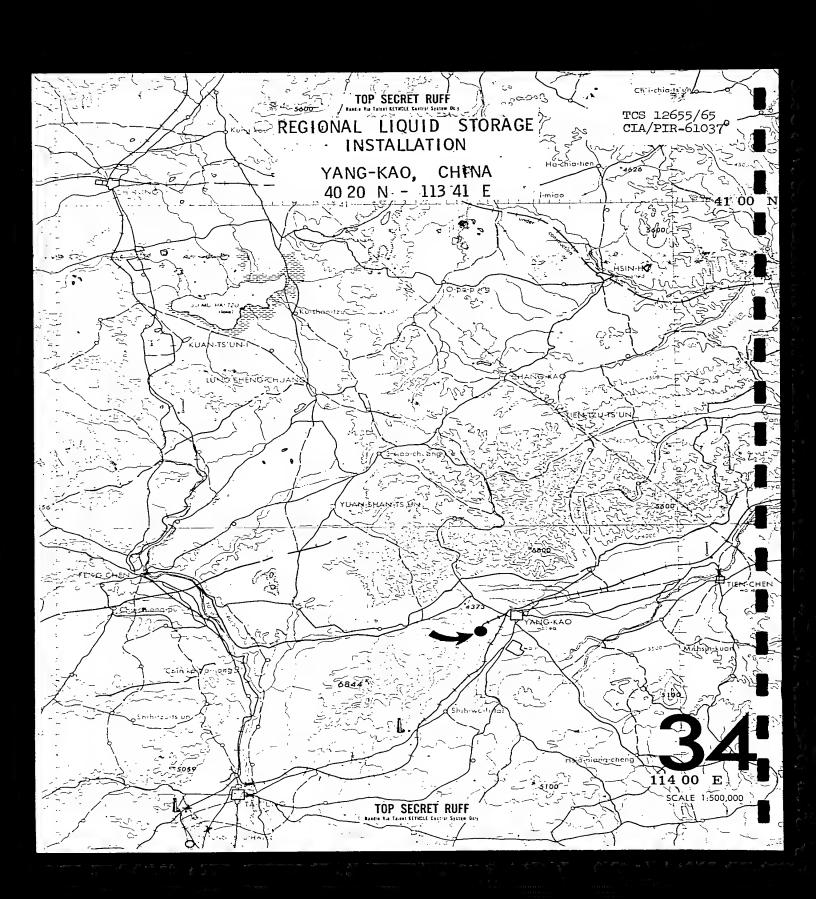
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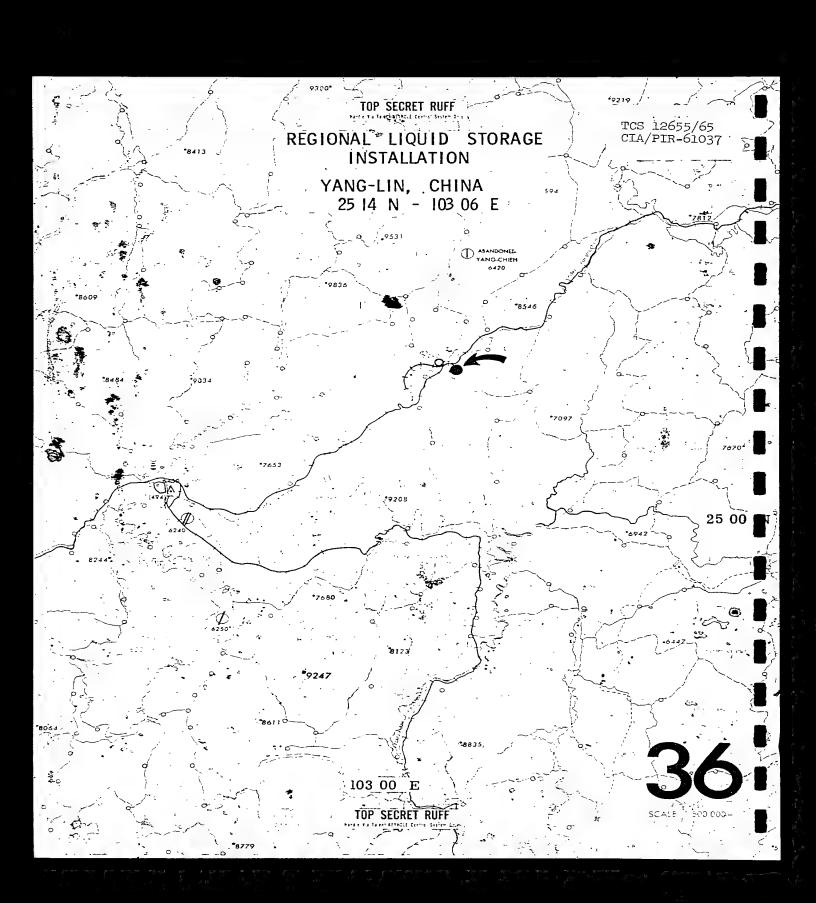
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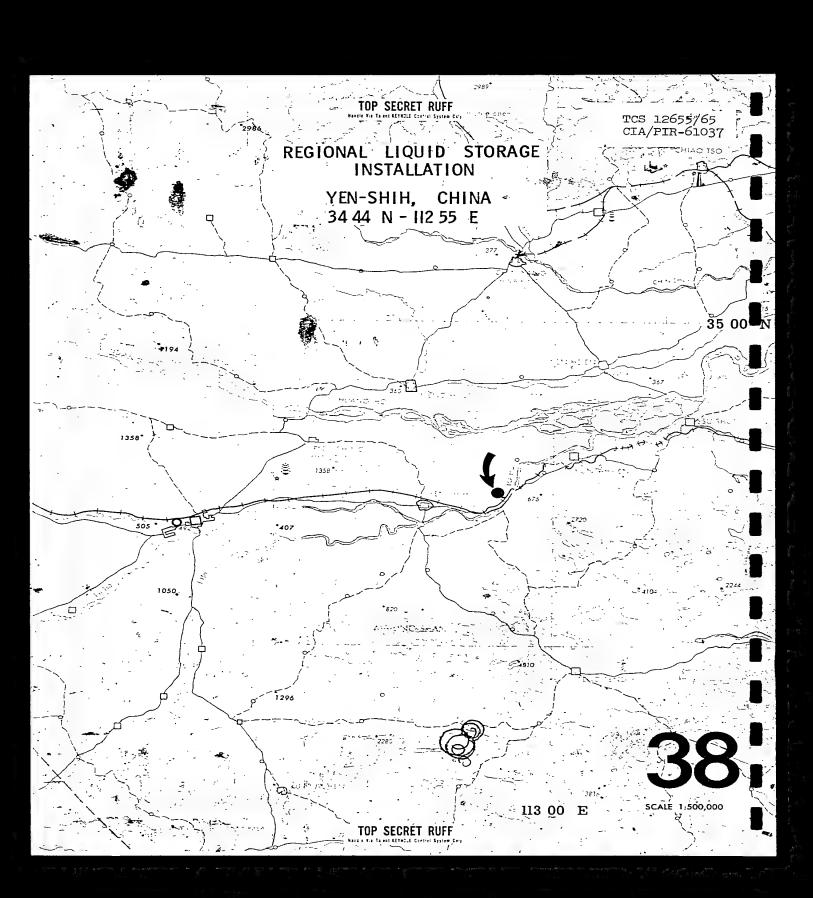
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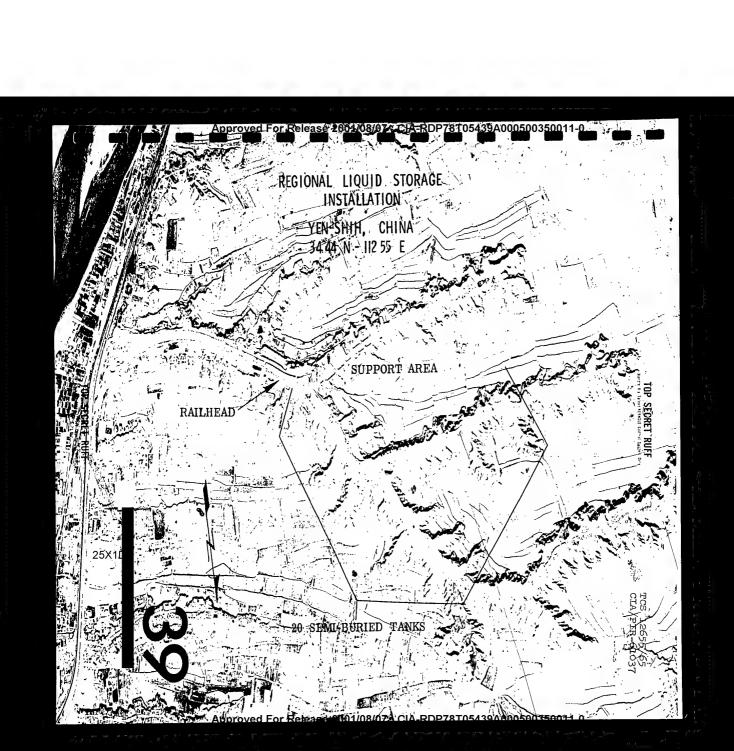












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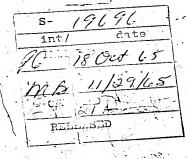
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